

24 July 1967

NARRATIVE SUMMARY

1. Project Title: Digitized Measuring Light Table (Follow on)

2. Contractor: Not selected

3. Project Number: NP-V-S/02058

Monitor:

4. Brief Description:

This development is a follow on to a FY-1967 contract with and will convert a photo interpretation light table, of the standard Model GFL 940 MCE type, into a P.I. measurement instrument. The accuracy anticipated is about 5 microns. This table, with its associated digitizers and teletype, will serve as an integral part of the P.I. station to yield close approximate ground information for rapid interpretation, as opposed to the more lengthy and precise equipments for photogrammetric mensuration. The digitized measuring system is planned to utilize the "DIG" concept which consists of a stationary, ruled glass bar and traveling optical reading head which is connected to the electronic readout. By providing a quick disconnect mount for the reading heads it is possible for one set of digitizers to be used serially with several tables. This project provides additional funds for mounting the "DIG", operational test and evaluation and product improvement modifications.

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5. New Capability Provided: This equipment will permit the P.I. to make relatively accurate measurements, input the coordinates of targets to the computer, and make plots of target areas; all without cutting the film into chips or removing it from the light table. A quick-reaction capability is thereby provided directly to the P.I. for that percentage of his responsibilities not requiring precise photogrammetric mensuration.

6. Equipment/Techniques to be Replaced: This equipment is a new application and technique and will not replace any precision mensuration equipment.

7. Status:

a. This development is currently in the Engineering Development Category.

b. FY-67 funds against this project are being used to provide a Prototype Control Console & "DIG" digitizers.

c. FY-68 funds are proposed to integrate this project with the light table in a working prototype and to provide test and evaluation and modifications prior to the development of a production version.

8. Remarks: FY-67 funds in the amount of have recently been contracted with for the computer console and controls. FY-68 funds of are programmed for this project to integrate the Model GFL 940 MCE table with the Console, and provide the "DIG" measuring scales and removable reading heads.

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9. Related CIA/DoD Efforts: The NPIC Model GFL 940 MCE or a prototype advanced light table will be used as the basic instrument for modification to incorporate the on-line measuring system. This project is also related to the NPIC Integrated Information System, Project NP-H-1-08018, for computer interface into an integrated system.

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10. Coordination Accomplished and Anticipated: Information on this development has been disseminated to the Intelligence Community through the NPIC Equipment Summary.

Declass Review by NGA.